

FIG. 2

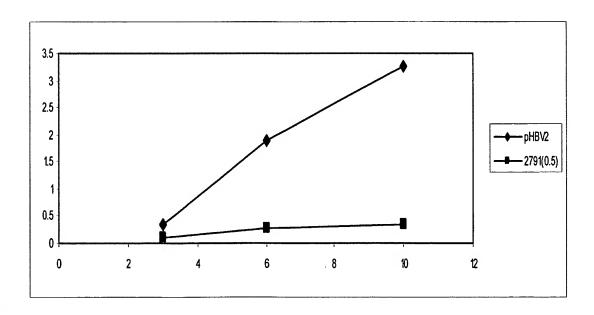


FIG. 3

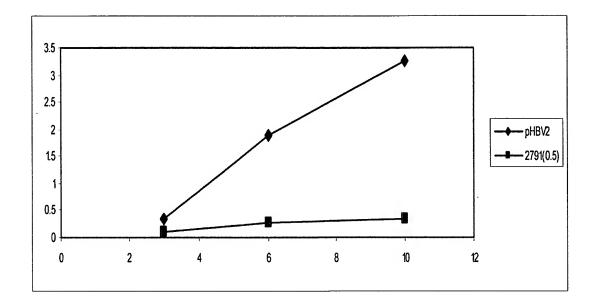
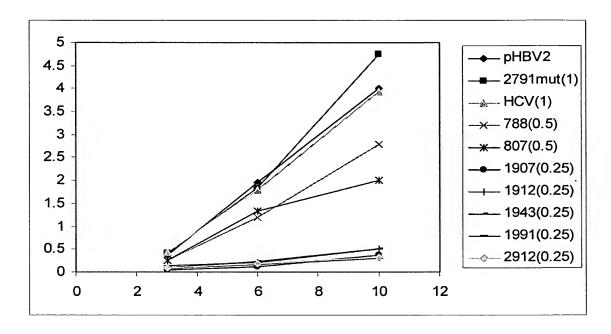


FIG. 4



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FIG. 5

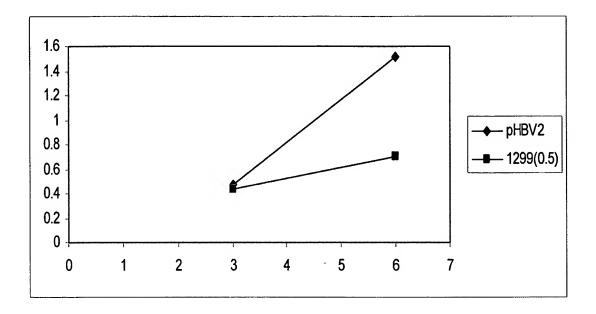


FIG. 6

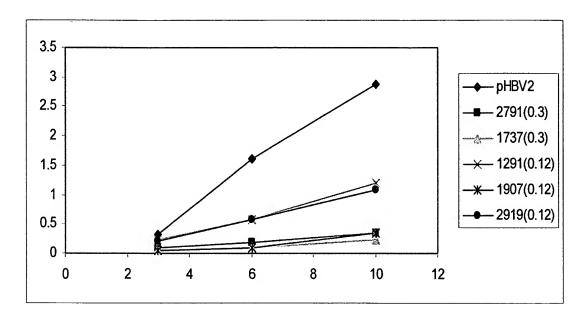


FIG. 7

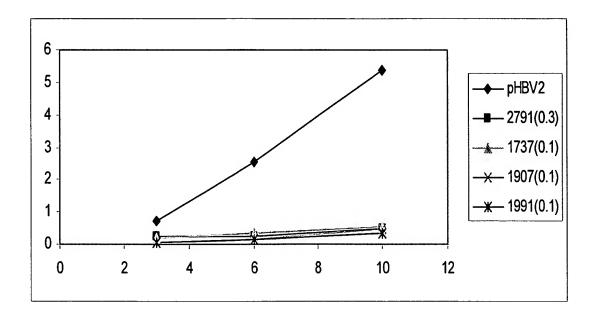
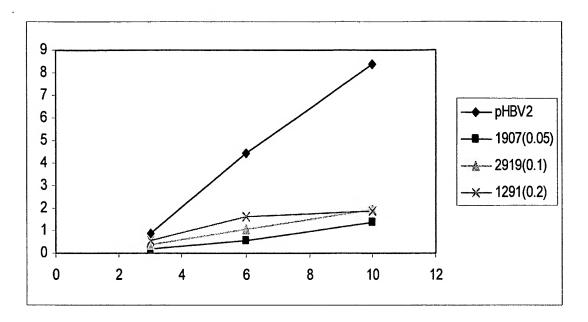


FIG. 8

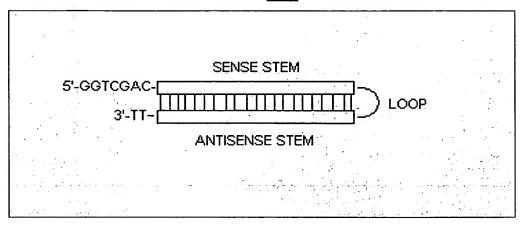


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FIG. 9

EFFECTIVE HBV-AYW shRNA INSERTS

5' - GGTCGAC - sense stem - loop - antisense stem -TT - 3'



5

FIG. 10

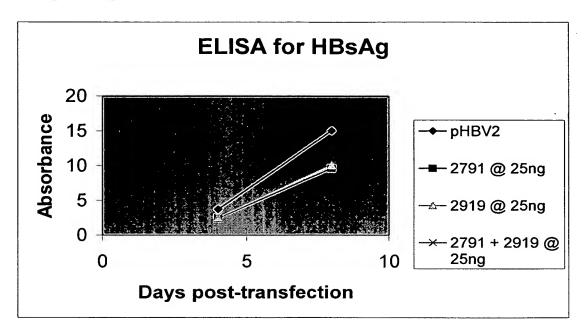


FIG. 11

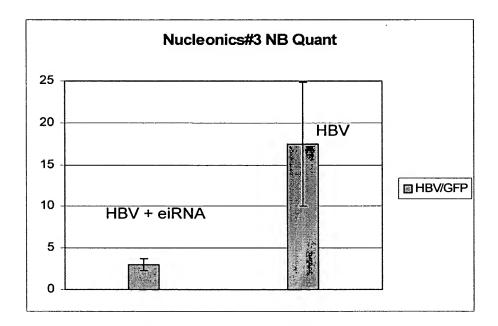


FIG. 12

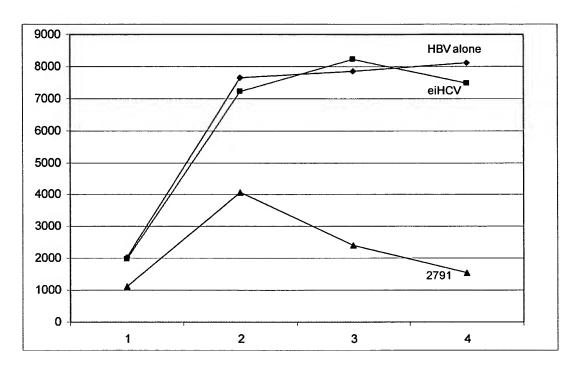


FIG. 13

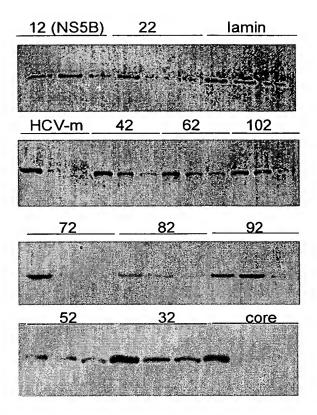
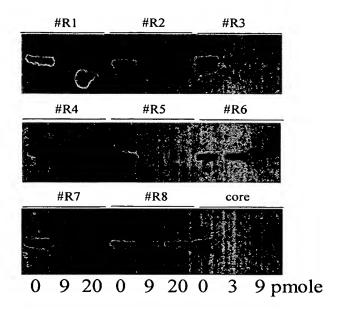


FIG. 14



5

Position	sequence	length
	TGGCTCCATCTTAGCCCTAGTC	22
9510-9533	TGGCTCCATCTTAGCCCTAGTCAC	24
9510-9534	TGGCTCCATCTTAGCCCTAGTCACG	25
9510-9535	TGGCTCCATCTTAGCCCTAGTCACGG	26
9510-9536	TGGCTCCATCTTAGCCCTAGTCACGGC	27
9514-9534	TCCATCTTAGCCCTAGTCACG	21
9514-9535	TCCATCTTAGCCCTAGTCACGG	22
9514-9536	TCCATCTTAGCCCTAGTCACGGC	23
9514-9539	TCCATCTTAGCCCTAGTCACGGCTAG	26
9514-9540		27
9514-9542	TCCATCTTAGCCCTAGTCACGGCTAGCTG	29
	ATCTTAGCCCTAGTCACGGCTAG	23
	ATCTTAGCCCTAGTCACGGCTAGC	24
	ATCTTAGCCCTAGTCACGGCTAGCTG	26
	ATCTTAGCCCTAGTCACGGCTAGCTGTG	28
	TCTTAGCCCTAGTCACGGCTAG	22
	TCTTAGCCCTAGTCACGGCTAGC	23
9518-9542		25
		27
	TCTTAGCCCTAGTCACGGCTAGCTGTG	21
	TTAGCCCTAGTCACGGCTAGC	
9520-9542		23
	TTAGCCCTAGTCACGGCTAGCTGTG	25
9520-9548		29
9521-9542	TAGCCCTAGTCACGGCTAGCTG	22
9521-9544		24
9521-9548		28
	TAGCCCTAGTCACGGCTAGCTGTGAAAGG	29
	AGCCCTAGTCACGGCTAGCTG	21
	AGCCCTAGTCACGGCTAGCTGTG	23
9522-9548	AGCCCTAGTCACGGCTAGCTGTGAAAG	27
9522-9549	AGCCCTAGTCACGGCTAGCTGTGAAAGG	28
9527-9548	TAGTCACGGCTAGCTGTGAAAG	22
9527-9549	TAGTCACGGCTAGCTGTGAAAGG	23
9527-9551	TAGTCACGGCTAGCTGTGAAAGGTC	25
9527-9552	TAGTCACGGCTAGCTGTGAAAGGTCC	26
9527-9553	TAGTCACGGCTAGCTGTGAAAGGTCCG	27
9527-9555	TAGTCACGGCTAGCTGTGAAAGGTCCGTG	29
9528-9548	AGTCACGGCTAGCTGTGAAAG	21
	AGTCACGGCTAGCTGTGAAAGG	22
	AGTCACGGCTAGCTGTGAAAGGTC	24
	AGTCACGGCTAGCTGTGAAAGGTCC	25
	AGTCACGCTAGCTGTGAAAGGTCCG	26
	AGTCACGGCTAGCTGTGAAAGGTCCGTG	28
	TCACGGCTAGCTGTGAAAGGTC	22
	TCACGGCTAGCTGTGAAAGGTCC	23
		24
	TCACGGCTAGCTGTGAAAGGTCCG	26
	TCACGGCTAGCTGTGAAAGGTCCGTG	
9530-9557		28
	TCACGGCTAGCTGTGAAAGGTCCGTGAGC	29
	ACGGCTAGCTGTGAAAGGTCC	21
	ACGGCTAGCTGTGAAAGGTCCG	22
	ACGGCTAGCTGTGAAAGGTCCGTG	24
9532-9557	ACGGCTAGCTGTGAAAGGTCCGTGAG	26
9532-9558	ACGGCTAGCTGTGAAAGGTCCGTGAGC	27
9532-9559	ACGGCTAGCTGTGAAAGGTCCGTGAGCC	28
	ACGGCTAGCTGTGAAAGGTCCGTGAGCCG	29
		21
9537-9557		
	TAGCTGTGAAAGGTCCGTGAGC	22

9537-9560	TAGCTGTGAAAGGTCCGTGAGCCG	24
9537-9561	TAGCTGTGAAAGGTCCGTGAGCCGC	25
		28
	AGCTGTGAAAGGTCCGTGAGC	21
	AGCTGTGAAAGGTCCGTGAGCC	22
	AGCTGTGAAAGGTCCGTGAGCCG	23
0700 0501	AGCTGTGAAAGGTCCGTGAGCCGC	24
	AGCTGTGAAAGGTCCGTGAGCCGCTTG	27
	AGCTGTGAAAGGTCCGTGAGCCGCTTGAC	29
9541-9561	TGTGAAAGGTCCGTGAGCCGC	21
9541-9564	TGTGAAAGGTCCGTGAGCCGCTTG	24
9541-9566	TGTGAAAGGTCCGTGAGCCGCTTGAC	26
9541-9568	TGTGAAAGGTCCGTGAGCCGCTTGACTG	28
9541-9569	TGTGAAAGGTCCGTGAGCCGCTTGACTGC	29
9543-9564	TGAAAGGTCCGTGAGCCGCTTG	22
9543-9566	TGAAAGGTCCGTGAGCCGCTTGAC	24
9543-9568	TGAAAGGTCCGTGAGCCGCTTGACTG	26
9543-9569	TGAAAGGTCCGTGAGCCGCTTGACTGC	27
9543-9571	TGAAAGGTCCGTGAGCCGCTTGACTGCAG	29
9545-9566	AAAGGTCCGTGAGCCGCTTGAC	22
9545-9568	AAAGGTCCGTGAGCCGCTTGACTG	24
9545-9569	AAAGGTCCGTGAGCCGCTTGACTGC	25
9545-9571	AAAGGTCCGTGAGCCGCTTGACTGCAG	27
9545-9573	AAAGGTCCGTGAGCCGCTTGACTGCAGAG	29
	AAGGTCCGTGAGCCGCTTGAC	21
	AAGGTCCGTGAGCCGCTTGACTG	23
	AAGGTCCGTGAGCCGCTTGACTGC	24
	AAGGTCCGTGAGCCGCTTGACTGCAG	26
	AAGGTCCGTGAGCCGCTTGACTGCAGAG	28
	AGGTCCGTGAGCCGCTTGACTG	22
05.45 0550	AGGTCCGTGAGCCGCTTGACTGC	23
	AGGTCCGTGAGCCGCTTGACTGCAG	25
	AGGTCCGTGAGCCGCTTGACTGCAGAG	27
9547-9575	AGGTCCGTGAGCCGCTTGACTGCAGAGAG	29
9550-9571	TCCGTGAGCCGCTTGACTGCAG	24
9550-9573 9550-9575	TCCGTGAGCCGCTTGACTGCAGAG	26
	TCCGTGAGCCGCTTGACTGCAGAGAG TCCGTGAGCCGCTTGACTGCAGAGAGTG	28
	TCCGTGAGCCGCTTGACTGCAGAGAGTGC	29
9554-9575	TGAGCCGCTTGACTGCAGAGAGTGC	22
	TGAGCCGCTTGACTGCAGAGAGTG	24
	TGAGCCGCTTGACTGCAGAGAGTGC	25
9554-9580	TGAGCCGCTTGACTGCAGAGAGTGCTG	27
	AGCCGCTTGACTGCAGAGAGTG	22
9556-9578	AGCCGCTTGACTGCAGAGAGTGC	23
	AGCCGCTTGACTGCAGAGAGTGCTG	25
	AGCCGCTTGACTGCAGAGAGTGCTGATAC	29
	TTGACTGCAGAGAGTGCTGATAC	23
	TTGACTGCAGAGAGTGCTGATACTG	25
<u> </u>	TTGACTGCAGAGAGTGCTGATACTGG	26
	TTGACTGCAGAGAGTGCTGATACTGGC	27
	TTGACTGCAGAGAGTGCTGATACTGGCC	28
	TGACTGCAGAGAGTGCTGATAC	22
	TGACTGCAGAGAGTGCTGATACTG	24
	TGACTGCAGAGAGTGCTGATACTGG	25
	TGACTGCAGAGAGTGCTGATACTGGC	26
	TGACTGCAGAGAGTGCTGATACTGGCC	27
	TGACTGCAGAGAGTGCTGATACTGGCCTC	29
	ACTGCAGAGAGTGCTGATACTG	22
	ACTGCAGAGAGTGCTGATACTGG	23

9565-9588	ACTGCAGAGAGTGCTGATACTGGC	24
	ACTGCAGAGAGTGCTGATACTGGCC	25
	ACTGCAGAGAGTGCTGATACTGGCCTC	27
	ACTGCAGAGAGTGCTGATACTGGCCTCTC	29
9567-9587		21
9567-9588	TGCAGAGAGTGCTGATACTGGC	22
	TGCAGAGAGTGCTGATACTGGCC	23
9567-9591	TGCAGAGAGTGCTGATACTGGCCTC	25
9567-9593	TGCAGAGAGTGCTGATACTGGCCTCTC	27
9567-9595	TGCAGAGAGTGCTGATACTGGCCTCTCTG	29
9570-9591	AGAGAGTGCTGATACTGGCCTC	22
9570-9593	AGAGAGTGCTGATACTGGCCTCTC	24
9570-9595	AGAGAGTGCTGATACTGGCCTCTCTG	26
9570-9596	AGAGAGTGCTGATACTGGCCTCTCTGC	27
9570-9598	AGAGAGTGCTGATACTGGCCTCTCTGCAG	29
9572-9593	AGAGTGCTGATACTGGCCTCTC	22
9572-9595	AGAGTGCTGATACTGGCCTCTCTG	24
9572-9596	AGAGTGCTGATACTGGCCTCTCTGC	25
9572-9598	AGAGTGCTGATACTGGCCTCTCTGCAG	27
9574-9595	AGTGCTGATACTGGCCTCTCTG	22
9574-9596	AGTGCTGATACTGGCCTCTCTGC	23
9574-9598	AGTGCTGATACTGGCCTCTCTGCAG	25
9574-9601	AGTGCTGATACTGGCCTCTCTGCAGATC	28
9576-9596	TGCTGATACTGGCCTCTCTGC	21
9576-9598	TGCTGATACTGGCCTCTCTGCAG	23
9576-9601	TGCTGATACTGGCCTCTCTGCAGATC	26
9576-9604	TGCTGATACTGGCCTCTCTGCAGATCAAG	29
9579-9601	TGATACTGGCCTCTCTGCAGATC	23
9579-9604	TGATACTGGCCTCTCTGCAGATCAAG	26
9581-9601	ATACTGGCCTCTCTGCAGATC	21
9581-9604	ATACTGGCCTCTCTGCAGATCAAG	24
9583-9604	ACTGGCCTCTCTGCAGATCAAG	22

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